

Puget Sound Stormwater Work Group

**What We've Accomplished Since
November and an Overview of
our Recommendations**

**May 19, 2010
Jim Simmonds**



What Am I Talking About?



- Who is the Puget Sound Stormwater Work Group?
- Why do we exist?
- What have we done so far?
- How best to read our report
- What are we recommending?
- Next Steps

Part of Ecosystem Monitoring Program

- Part of Puget Sound Partnership's effort to coordinate ecosystem monitoring
- One of 3-5 initial topical work groups
- Each work group focuses on one aspect of ecosystem monitoring
- All work groups to be coordinated by the ecosystem monitoring program

How We Are Organized

- A caucus-based committee with broad representation
 - Federal agencies, state agencies, local jurisdictions, environmental groups, business, agriculture, ports, tribes
- Funded and staffed by Department of Ecology

What We Are Doing

- By June, 2010 recommend a regional coordinated stormwater monitoring and assessment strategy including:
 - A scientific framework for monitoring stormwater impacts and management effectiveness (volume 1)
 - An implementation plan recommending roles and responsibilities, including municipal NPDES stormwater permit requirements (volume 2)

Stormwater Work Group Schedule

2008 - 2010 Work Plan

2008 Oct	2009 May	June - Oct	Nov	2010 Dec - April	May	June
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Work
Group
Convenes

First
Regional
Workshop:
Early
Ideas

Work Group
Develops
Draft
Scientific
Framework

Second
Regional
Workshop:
Scientific
Framework and
Implementation

Work Group
Revises
Scientific
Framework and
Develops Draft
Implementation
Plan

Third
Regional
Workshop:
Implementa-
tion Plan

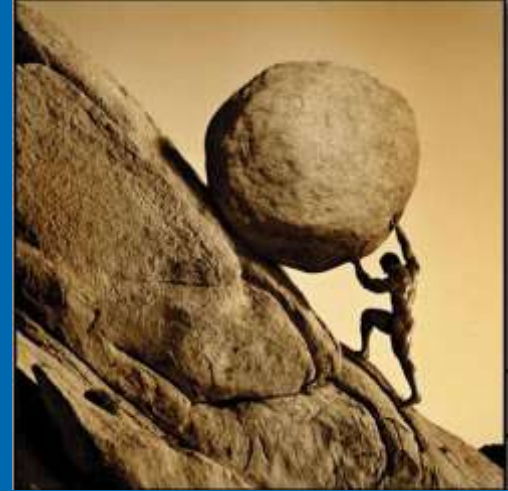
Final
Strategy
Delivered to
Puget Sound
Partnership
and
Department
of Ecology



**We Are
Here**

What Have We Done in the Last Six Months?

- Released draft scientific framework: Nov 4, 2009
- Public workshop: Nov 10, 2009
- Received over 800 comments and five formal peer reviews on draft report
- Reviewed comments and incorporated into scientific framework
- Developed draft implementation plan
- Released new document April 30, 2010



REVISED DRAFT

**Stormwater Monitoring and
Assessment Strategy for the
Puget Sound Region,
Volume 1: Scientific Framework
Volume 2: Implementation Plan**

Created and overseen by:

The Puget Sound Stormwater Work Group
(members listed on the following page)

With contributions from:

Derek Booth, Stillwater Sciences
Chad Brown, WA Dept. of Ecology
Scott Collyard, WA Dept. of Ecology
Ken Dzinbal, WA Recreation and Conservation Office
George Fowler, Independent Consultant
Dennis Helsel, Practical Stats
Joan Lee, Parametrix Consultants
John Lenth, Herrera Environmental Consultants
Julie Lowe, WA Dept. of Ecology
Joy Michaud, Herrera Environmental Consultants
Mike Milne, Brown and Caldwell
Dale Norton, WA Dept. of Ecology
Stephen Ralph, Stillwater Sciences
Gary Turney, U.S. Geological Survey, retired
Phyllis Varner, City of Bellevue
Jim West, WA Dept. of Fish and Wildlife

April 30, 2010

How to Read Our Report



- Key Recommendations:
voted on and approved by entire
Stormwater Work Group
- Main Document: prepared by subgroups
 - Volume 1 = Scientific Framework
 - Volume 2 = Implementation Plan
- Appendices: additional detail and
examples



The Adaptive Management Cycle (Open Standards Conservation 2007)

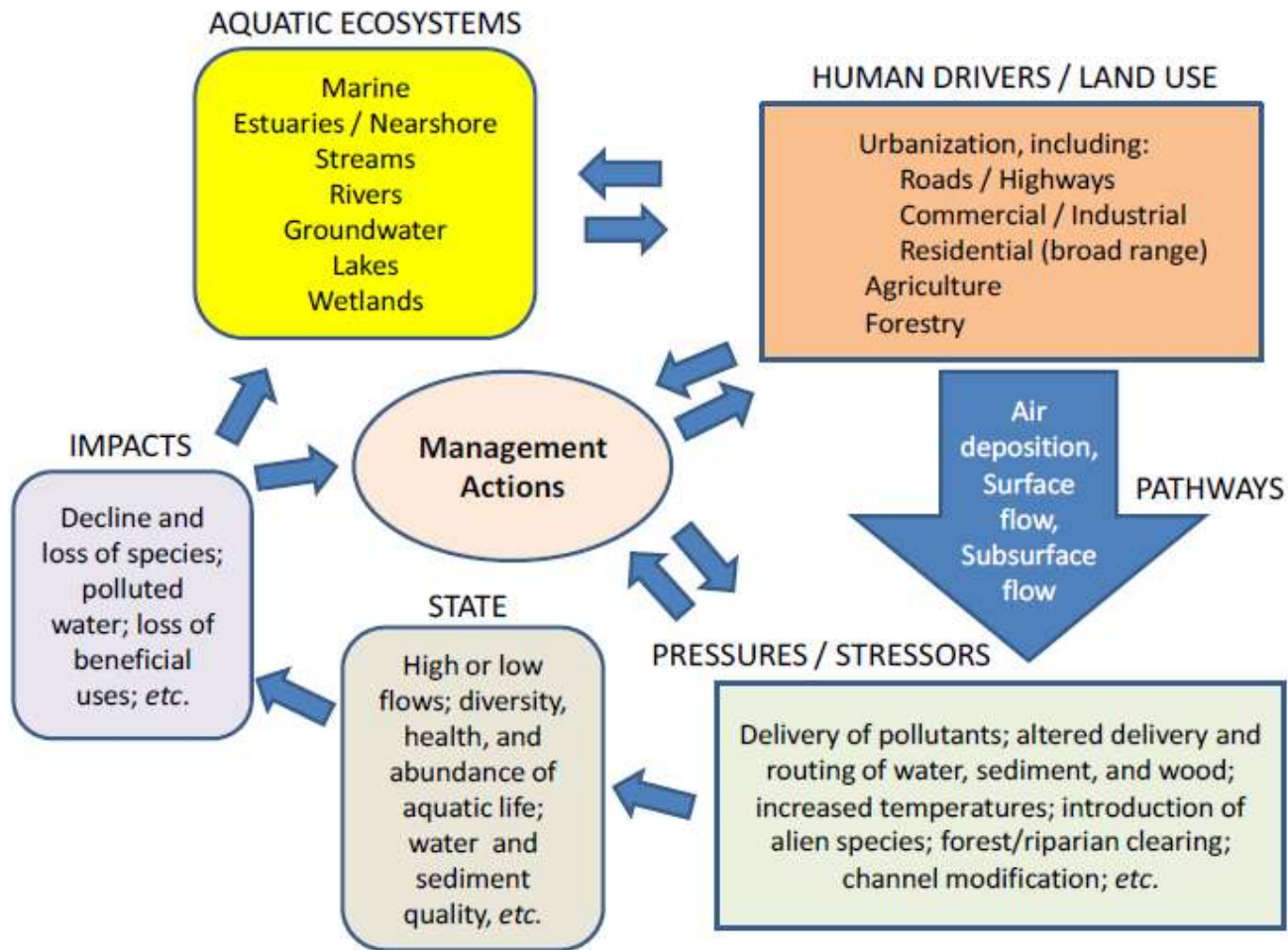
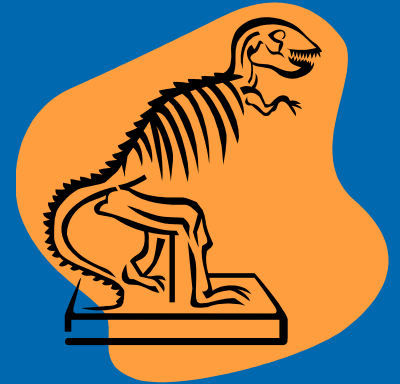


Figure 2. Conceptual Driver-Pressure-State-Impact-Response (DPSIR) model showing the complex interactions of land use and management actions on stressors impacting biological endpoints and beneficial uses in receiving waters and aquatic ecosystems.

Old Stormwater Monitoring Paradigm



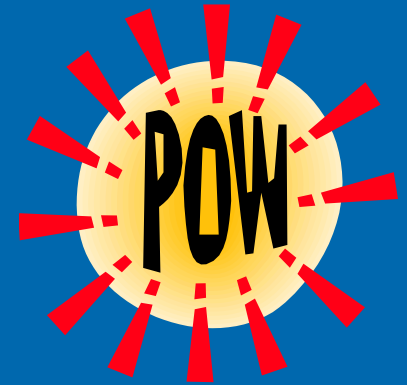
- Outfall compliance monitoring
- No linkage to beneficial uses
- No way to prioritize based on impairment
- Every entity works independently
- **Very Expensive!!!** ←

New Stormwater Monitoring Paradigm



- Monitor beneficial uses
- Prioritize impairments to address first
- Detailed monitoring to find sources and drive management actions such as inspections and enforcements
- Test to make sure that we are doing is working, or if not, to find out why not
- Every entity works cooperatively

Key Recommendations



- Implementation Approach
 - Pay-in option in permit with new entity to manage collective funds for priority monitoring
- Status & Trends Monitoring
 - Small streams and marine nearshore monitoring
- Source Identification & Diagnostic Monitoring
 - WRIA-based prioritization and monitoring with link to actions
- Effectiveness Studies
 - Solicit and fund studies on priority topics

Cost Concerns



- How to fairly allocate costs
 - Feds, state, local, business, other
 - Between municipal permittees
- Affordability for Phase 2 permittees given economic conditions
- Phase 1 monitoring – includes outfall-based monitoring – is expensive
- Ensuring accountability for pay-in option
- Ensuring sustainability of other funds

Some Issues to Ponder

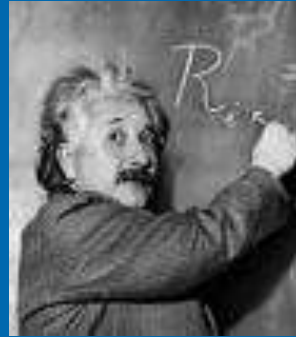
- Other permittees not yet addressed
- Public and political support
- Link between policy and science
- Overcoming fear of data due to possible future liabilities
- Maintaining and expanding cooperation
- Pollution Control Hearing Board has ruled that Ecology can require monitoring
- Ecology has stated that Phase 2 jurisdictions will have monitoring in the next permit



Work Group's Next Steps

- Final recommendation report by June 30
- Keep working
 - Coordinate with others
 - Set up new administrative entity
 - Refine cost and cost sharing issues
 - Refine study designs & work processes
 - Expand to be more inclusive

We Want Your Input!



- TODAY – provide comments at workshop
- Written comments due – May 28
- Use on-line form if possible →
- Comments in following categories
 - Key Recommendations
 - Regional Program Components
 - Status and Trends Monitoring
 - Source Identification Diagnostic Monitoring
 - Effectiveness Studies

